JULY 1, 2001 THROUGH DECEMBER 31, 2001 SEMIANNUAL GROUNDWATER SAMPLING ANALYTICAL RESULTS SAMPLE COLLECTION DATES: OCTOBER 16 -18, 2001 MCCORMICK & BAXTER CREOSOTING COMPANY SITE PORTLAND, OREGON (ug/L)

<u></u>	Analytes										
Sample Identification	Arsenic	Copper	Chromium	Zinc	PCP	Total PAHs	Total LPAHs	Total HPAHs	Total CPAHs	2,3,7,8-TCDD TEQ	
EW-19s	•	-	-	•	-		-	-	-	•	
MW-Ks	5.90	2 U	10	97.6	1.10	MRL	MRL	MRL	MRL	-	
MW-Qs (Duplicate of MW-Ks)	5.41	2 U	1 U	99.7		0.106	0.106	MRL	MRL		
MW-LRs	20.1	2.56	4.55	23.3	1 U	2,443 J	2,439 J	3.63	0.45	0.0000050	
MW-Os	10.8	50.9	15.9	725	1 U	MRL	MRL	MRL	MRL	-	
MW-2s	1.82	6.75	7.63	12.7	1 U	0.71	0.59	0.12	MRL	•	
MW-3s	3.74	2 U	3.30	5.03	1 U	MRL	MRL	MRL	MRL	-	
MW-4s	14.2	6.36	11.5	16.4	1 U	2.59	2.59	MRL	MRL	•	
MW-8i	223	23.0	6.64	108	841	14,256 J	10,988 J	3,268 J	991 J	•	
MW-13i	25.4	2 U	1.61	5 U	1 U	2.00	1.55	0.45	MRL		
MW-19s	-	•	-	-	1 U			•	-	•	
MW-18s	29.1	2 U	1.16	53.2	10	351 J	14.1	337	3.20		
MW-23d	3.00	2 U	1 U	5 U	1 Ü	1.70	0.96	0.74	MRL	-	
MW-25s	33.0	6.43	6.81	14.4	1 U	1,344 J	1,342 J	2.02	0.73	0.0000056	
MW-35s	1 U	2 U	1 U	5 U	1 U	MRL	MRL	MRL	MRL		
MW-31s	19.5	3.33	4.69	5.51	1 U	166	165	0.85	MRL		
RINSATE	1 U	2 U	1 U	5 U	1 U	0.34	0.22	0.12	MRL		

ACL CONCENTRATIONS (ug/L)									
Arsenic	Copper	Chromium	Zinc	PCP	Total PAHs	Total LPAHs	Total HPAHs	Total CPAHs	2,3,7,8-TCDD TEQ
1,000	1,000	1,000	1,000	5,000	43,000		•	•	0.0002

Notes:

Analyte detections, above reporting limits, are shown in reverse highlighted text.

North Creek Analytical, Inc. did not perform the laboratory analysis for PCP in groundwater for samples submitted October 19, 2001. Results listed for MW-8i, MW-4s, and MW-Ks are for samples collected on January 31, 2002. PCP will be reported for the 1st Semi-Annual monitoring event in 2002.

Groundwater samples were not collected from EW-19s and MW-19s in October 2001 because of the presence of lighter-than-water nonaqueous phase liquid (LNAPL) in the well.

Total arsenic, chromium, copper, and zinc analysis by EPA Method 6000/7000 series.

Key:

= Concentration exceeds the ACL.

ACL = Alternative cleanup level, as listed in the EPA Record of Decision.

CPAHS = Carcinogenic PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h,)anthracene, and indeno(1,2,3-cd)pyrene.

EPA = United States Environmental Protection Agency.

HPAHs = High molecular weight PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, fluoranthene, chrysene, dibenzo(a,h,)anthracene, pyrene, and indeno(1,2,3-cd)pyrene.

J = Concentration qualified as estimated based on QA/QC results associated with this sample.

LPAHs = Light-molecular weight PAHs (acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene)

MRL = Analyzed for, but not detected. Multiple compounds represented; therefore, no reporting limit is displayed.

PAHs = Polynuclear aromatic hydrocarbons by EPA Method 8270 SIM.

PCP = Pentachlorophenol by EPA Method 8270 SIM.

SIM = Selective ion monitoring.

2.3.7.8-TCDD TEQ = 2,3,7,8-tetrachlorodibenzo-p-dioxin toxic equivalency quotient by EPA Method 1613.

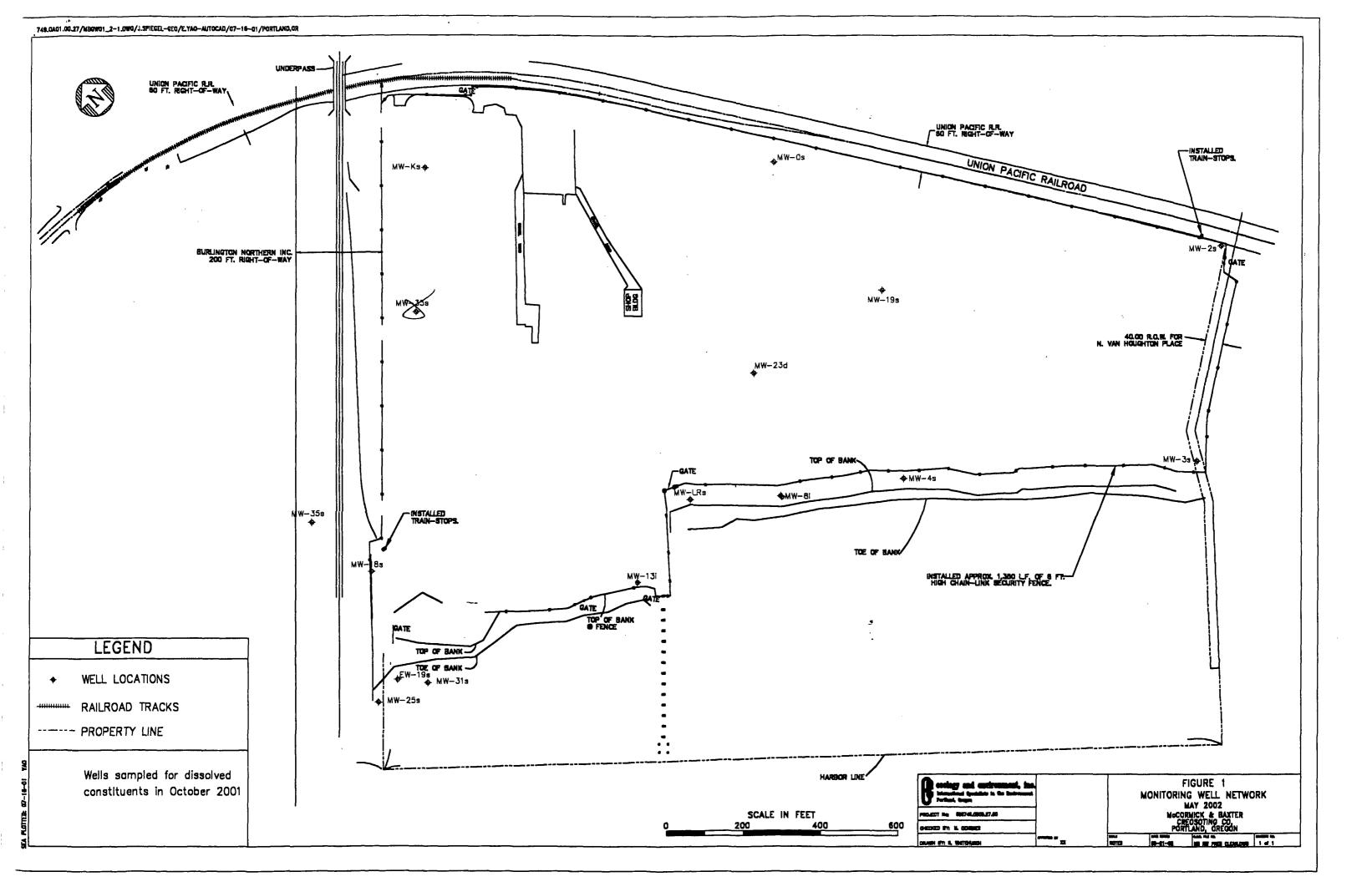
U = Compound was analyzed for, but was not detected; the corresponding value is the maximum reporting limit for the analyte.

ug/L = Micrograms per liter.

-- = Not available, not applicable, or not analyzed.

TCDD = Tetrachlorodibenzo-p-dioxin.





NAPL WELL CLASSIFICATIONS JULY 1 THROUGH DECEMBER 31, 2001 McCORMICK & BAXTER CREOSOTING COMPANY PORTLAND, OREGON

Well ID	3rd Quarter 1997	4th Quarter 1997	1st Quarter 1998	2nd Quarter 1998	2nd Half 1998	1st Half 1999	2nd Half 1999	1st Half 2000	2nd Half 2000	1st Half 2001	2nd Half 2001
Tank Farn	n Area										
EW-1s	•	•	•	•	•		•	-	Ф	•	•
EW-4s	•	•	•	•	4	⊕	•	•	Ð	⊕	⊕
EW-5s	•	•	•	•	•	•			⊕	⊕	⊕
EW-7s		•	•	•		B	•	•	⊕	#	0
EW-8s	•	•	•	• .	•	•		•		- 0	Φ
EW-12s	•	•	•	•	•	•		-	-	•	0
EW-17s	•	•	•	•	•	•	•	•	•	•	0
EW-18s	•	•	•	•		•	-	-	•	•	•
EW-24s	-	-		-	•	•	•	•	•	•	•
EW-25s		-	•		Φ	Ð	#	•	•	Ð	Ð
MW-ls	•	•	•	•	•	•		-	-		•
MW-LRs	• Ф	⊕	Ф	⊕	0		Ð	Φ	⊕		
MW-Ps	⊕	0)	⊕	⊕	0		⊕	•	
MW-Rs	•	•		•	•	•	•	•	•	•	•
MW-7s	•	•	•	•	•	•	•		#	•	#
MW-8i	<u> </u>	•		•	•	•			θ	Ð	⊕
MW-10s	•	•		•	_	•	•	•	•	•	•
MW-11s	⊕	O		#	⊕	0	⊕	⊕	Ф	⊕	
MW-22i	•	D		•	<u> </u>	•	-			θ	
TM-1s	 . 	-				_	•	•		⊕	
TM-3s		-		-	-	-	-	⊕		⊕	⊕
TM-4s			•				#	- 0		<u>⊕</u>	_
TM-5s	-				-	-	-	0	•	Φ	
	aste Disposal	Δrea									
EW-2s	•	Φ 1	⊕	•	•		•	•	•	⊕	⊕
EW-3s	•	•	- <u> </u>	•	•	•	•	<u> </u>	•	•	•
EW-6s		•	-	•	•	•	•			•	•
EW-9s	•				_	0		•	•	⊕ .	—⊕
EW-10s	•	•	•	•	•	•	•	•	•	•	-
EW-13s	•	⊕	⊕	θ	_	⊕	•	Ð	<u>⊕</u>	⊕	
EW-14s	•	•				•	•	•	•	•	•
EW-15s		•		•	-	Ğ	•	•	•	•	•
EW-19s	•	⊕	Φ	⊕	 ⊕	•	•	•	•	⊕	⊕
EW-20s	•	- 	•	•	_	•	•	Ð	⊕	⊕	
EW-22s		-				•	⊕	•	_ ⊕	⊕ ⊕	⊕
EW-23s	-	•	-		•	•		-	•	-	
MW-Ds	Φ	•	•	•		•	-	-	-	-	
MW-Es	•				•	•				- •	•
MW-Gs		•		•		•	•			_	
MW-18s	•	⊕		⊕		⊕	⊕	Ð	Ð	⊕	
MW-20i	•				<u> </u>	0	<u> </u>	-	-	⊕	⊕
MW-21s								•	•	•	
Other Area	. <u> </u>										
EW-11s	•	•	⊕	⊕	0	⊕	•	#	⊕	Ð	⊕
MW-1s	•	•	•	•	•	0	•	•	•	0	
MW-19s	•	•	0	-	•	•	<u> </u>	•	- 	⊕ ⊕	<u>⊕</u>
MW-35s	-			-			⊕	⊕			
VI VV -355	· ·	•	•	- 1		⊕	<u> </u>	<u> </u>	⊕_	⊕	⊕

Key:

- = LNAPL thicknesses measured during reporting period.
- =IDNAPL thicknesses measured during reporting period.
- =ILNAPL and DNAPL thicknesses measured during reporting period.
- ⊕ =INo NAPL thicknesses measured during reporting period.
 - = Not measured.
- DNAPL = Denser-than-water nonaqueous phase liquid.
 - ID = Identification.
- LNAPL = Lighter-than-water nonaqueous phase liquid.
- NAPL = Nonaqueous phase liquid.

